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APPLICATION NO.	FILING DATE	FIRST N	AMED INVENTOR	ATTORNEY DOCKE	T NO. CONFIRMATION NO.
10/538,069	06/09/2005	Kat	sumi Sakitani	4633-0138PUS	8925
	7590 10/18/200 ART KOLASCH & B				EXAMINER
PO BOX 747			Т	TRIEU, THERESA	
FALLS CHUR	CH, VA 22040-0747			ART UNIT PAPER NUMBER	
				3748	
				NOTIFICATION D	ATE DELIVERY MODE
				10/18/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary		Application No.	Applicant(s)					
		10/538,069	SAKITANI ET AL.					
		Examiner	Art Unit					
		Theresa Trieu	3748					
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on <u>03 Au</u>	<u>igust 2007</u> .						
2a)⊠	This action is FINAL . 2b) This action is non-final.							
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)🖂	4)⊠ Claim(s) <u>1-3,6 and 8-12</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🖂	5)⊠ Claim(s) <u>1-3,6,8 and 9</u> is/are allowed.							
	☑ Claim(s) <u>10-12</u> is/are rejected.							
·	Claim(s) is/are objected to.	•						
8)∐	Claim(s) are subject to restriction and/or	election requirement.						
Applicati	on Papers	•						
9) The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority L	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(e)							
_	us) e of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)					
2) Notic 3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte					

DETAILED ACTION

This Office Action is responsive to the applicants' amendment filed on Aug. 3, 2007.

Claims 1-3, 6, 8 and 9 have been amended. Claims 10-12 have been added.

Accordingly, claims 1-3, 6 and 8-12 are pending in this application.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claims 11 and 12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claims 11 and 12 of the amendment filed on Aug. 3, 2007, the applicants added the claimed limitations "said communicating passage communicates with said expansion chamber at a position of one-fourth / one-fourth to three-eight of a suction/expansion process toward the direction of the...... where the suction process in the suction/expansion process is completed" are considered new matter since the originally filed disclosure does not contain any support for the invention as now claimed.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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2. Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 10, the term "overexpansion can occur" renders the claim indefinite since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. In other words, under what condition the overexpansion occurs and under what condition the overexpansion does not occur.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 10 is rejected under 35 U.S.C. 102(b) as being anticipated by Ikeda et al. (Ikeda) (Publication Number JP 58-048706).

Regarding claim 10, as shown in Fig. 4, Ikeda discloses a displacement type expansion machine which is equipped with and expansion mechanism in which power is generated as a result of expansion of high-pressure fluid supplied to an expansion chamber, wherein; a communicating passage 23, for establishing fluid communication from a fluid outflow side of the expansion chamber (not numbered; however, clearly seen in Fig. 4) to an expansion-process intermediate position of the expansion chamber, is provided, the communicating passage 23 is provided with an opening/closing mechanism 24, and the

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communicating passage 23 communicates with the expansion chamber at a first position where overexpansion occurs.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ikeda in view of design choice.

Ikeda discloses the invention as recited above; however, Ikeda fails to disclose a position of the communicating passage with respect to a position of the suction/expansion.

It is examiner's position that one having ordinary skill in the displacement type expansion machine art, would have found it obvious to place the communicating passage communicates with said expansion chamber at a position of one-fourth/one-fourth to three-eighth of a suction/expansion process toward the direction of the expansion process from a position

where the suction process in the suction/expansion process is completed as claim, since it is merely design parameters, depending on the installation of and the size of the displacement expansion machine, or depending on being used for a particular purpose or solving a stated problem. Moreover, there is nothing in the record which establishes that the claimed position of the communicating passage, presents a novel of unexpected result (See In re Kuhle, 526 F.2d 553, 188 USPQ 7 (CCPA 1975)).

Allowable Subject Matter

- 5. Claims 1-3, 6, 8 and 9 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter:
 Applicants' amendments to the claims and arguments (presented in the Remarks section, pages
 6-7) have overcome the cited prior art.

Response to Arguments

7. Applicant's arguments with respect to claims 1-3, 6 and 8-12 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Communication

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Theresa Trieu whose telephone number is 571-272-4868. The

examiner can normally be reached on Monday-Friday 8:30am- 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas E. Denion can be reached on 571-272-4859. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TT

October 15, 2007

Theresa Trieu

Primary Examiner

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